

FIG. 2A

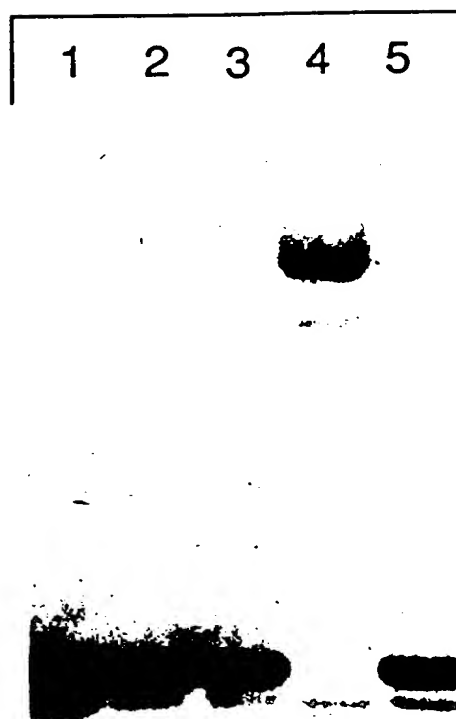


FIG. 2B

FIG. 3A

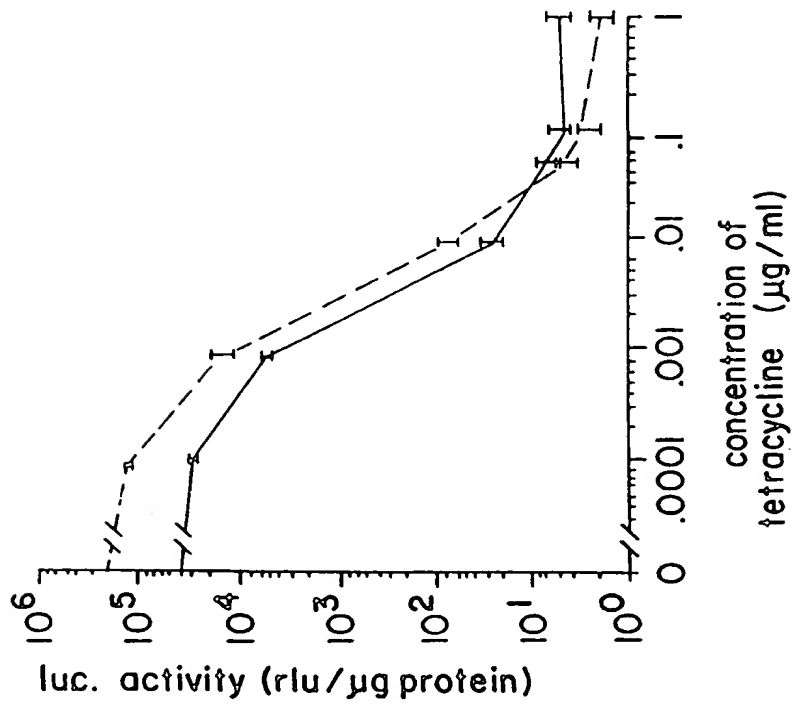
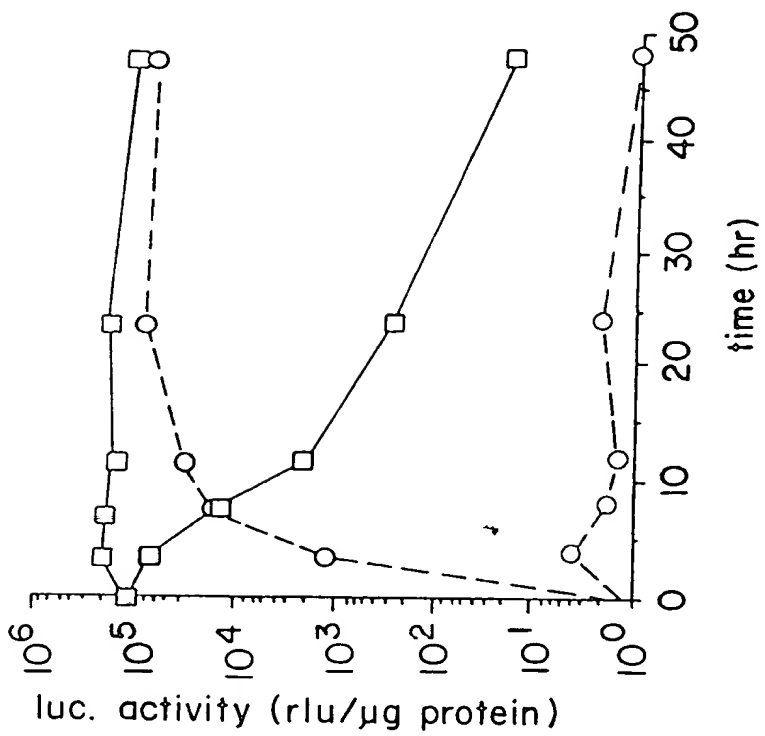


FIG. 3B



ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
 Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
 Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
 Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
 Leu Ala Ile Glu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAG GCT AAA AGT TTT AGA TGT GCT TTA
 Glu Ser Trp Trp Gln Asp Phe Leu Arg Asn Lys Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 4A

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu pro Ala phe Leu phe Gly Leu Glu Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCC GCG TAC AGC CGC GCG CGT ACG AAA AAC
Lys Gln Leu Lys Cys Glu Ser Gly Ser Ala Tyr Ser Arg Ala Arg Thr Lys Asn

AAT TAC GGG TCT ACC ATC GAG GGC CTG CTC GAT CTC CCG GAC GAC GCC CCC
Asn Tyr Gly Ser Thr Ile Glu Gly Leu Asp Leu Pro Asp Asp Ala Pro

GAA GAG GCG GGG CTG GCG GCT CCG CGC CTG TCC TTT CTC CCC GCG GGA CAC ACG
Glu Glu Ala Gly Leu Ala Ala Pro Arg Leu Ser Phe Leu Pro Ala Gly His Thr

CGC AGA CTG TCG ACG GCC CCC CCG ACC GAT GTC AGC CTG GGG GAC GAG CTC CAC
Arg Arg Leu Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His

Fig. 4C

TTA GAC GGC GAG GAC GTG GCG ATG GCG CAT GCC GAC GCG CTA GAC GAT TTC GAT
Leu Asp Gly Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp

CTG GAC ATG TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC
Leu Asp Met Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp

TCC GCC CCC TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT
Ser Ala Pro Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Gln Met Phe

ACC GAT CCC CTT GGA ATT GAC GAG TAC GGT GGG TAG
Thr Asp Pro Leu Gly Ile Asp Glu Tyr Gly Gly *

Fig. 4D

ATG TCT AGA TTA GAT AAA AGT AAA GTG ATT AAC AGC GCA TTA GAG CTG CTT AAT
Met Ser Arg Leu Asp Lys Ser Lys Val Ile Asn Ser Ala Leu Glu Leu Leu Asn

GAG GTC GGA ATC GAA GGT TTA ACA ACC CGT AAA CTC GCC CAG AAG CTA GGT GTA
Glu Val Gly Ile Glu Gly Leu Thr Thr Arg Lys Leu Ala Gln Lys Leu Gly Val

GAG CAG CCT ACA TTG TAT TGG CAT GTA AAA AAT AAG CGG GCT TTG CTC GAC GCC
Glu Gln Pro Thr Leu Tyr Trp His Val Lys Asn Lys Arg Ala Leu Leu Asp Ala

TTA GCC ATT GAG ATG TTA GAT AGG CAC CAT ACT CAC TTT TGC CCT TTA GAA GGG
Leu Ala Ile Clu Met Leu Asp Arg His His Thr His Phe Cys Pro Leu Glu Gly

GAA AGC TGG CAA GAT TTT TTA CGT AAT AAC GCT AAA AGT TTT AGA TGT GCT TTA
Glu Ser Trp Gln Asp Phe Leu Arg Asn Asn Ala Lys Ser Phe Arg Cys Ala Leu

Fig. 5A

GGT GCA GAG CCA GCC TTC TTA TTC GGC CTT GAA TTG ATC ATA TGC GGA TTA GAA
Gly Ala Glu Pro Ala Phe Leu Phe Gly Leu Glu Ile Ile Cys Gly Leu Glu

AAA CAA CTT AAA TGT GAA AGT GGG TCT GAT CCA TCG ATA CAC ACG CGC AGA CTG
Lys Gln Leu Lys Cys Glu Ser Gly Ser Asp Pro Ser Ile His Thr Arg Arg Leu

TCG ACG GCC CCC CCG ACC GAT GTC AGC AGG GAC GAG CTC CAC TTA GAC GGC
Ser Thr Ala Pro Pro Thr Asp Val Ser Leu Gly Asp Glu Leu His Leu Asp Gly

GAG GAC GTG GCG ATG GCG CAT GCC GAC GAC GAC GAT TTC GAT CTG GAC ATG
Glu Asp Val Ala Met Ala His Ala Asp Ala Leu Asp Asp Phe Asp Leu Asp Met

TTG GGG GAC GGG GAT TCC CCG GGT CCG GGA TTT ACC CCC CAC GAC TCC GCC CCC
Leu Gly Asp Gly Asp Ser Pro Gly Pro Gly Phe Thr Pro His Asp Ser Ala Pro

Fig. 5C

TAC GGC GCT CTG GAT ATG GCC GAC TTC GAG TTT GAG CAG ATG TTT ACC GAT GCC
Tyr Gly Ala Leu Asp Met Ala Asp Phe Glu Phe Glu Gln Met Phe Thr Asp Ala

CTT GGA ATT GAC GAG TAC GGT GGG TTC TAG
Leu Gly Ile Asp Glu Tyr Gly Gly Phe *

Fig 5D

GAATTCCTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACTC
CCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGT
GAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCC
TATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGA
AAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGT
CGAGTAGGCGTGACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGC
CTGGAGACGCCATCCACGCTGTTTTTGACCTCCATAGAGACACCGGACCGATCCAGCCTCCGC

GG

Fig. 6

Fig. 7

GAGCTCGACTTTCACCTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTC
TATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTATCACTGATAGGAGTGGTAA
ACTCGACTTTCACCTTTCTCTATCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTCTA
TCACTGATAGGAGTGGTAAACTCGACTTTCACCTTTCTCTATCACTGATAGGAGTGGTAAAC
TCGACTTTCACCTTTCTCTATCACTGATAGGAGTGGTAAACTCGAGATCCGGCGAATTCGAAC
ACGCAGATGCAGTCGGGGCGGGTCCGAGGTCCTCGCATATTAAAGTGACGCGTGTGG
CCTCGAACACCGAG

Fig. 8

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGGTCGAGTA
GGCGTGACGGTGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGTACCTCCATAGAAAGACACCGGGACCGATCCAGCCTCCGCGGCCCC
GAATTCGAGCTCGGTACCGGGCCCCCTCGAGGTCGACGGTATCGATAAGCTTGATATCGAAT
TCCAGGAGGTGGAGATCCGCGGGTCCAGCCAACCCACACCCATTCTCTCCTCCTCGCCCC
TATATCCCGGACCCCTCCTCCTAGCCCTTTCCCTCCTCCCGAGAGACGGGGAGGAGAAAAG
GGGAGTTT'AGGTCGACATGACTGAGCTGAAGGCAAGGAACCTCGGGCTCCCCACGTGCGGGC
GGCGGCCCTCCCCACCGAGGTCGGATCCCAGCTCCTGGGTGCGCCCGGACCCCTGGCCCCCTTCC
AGGGGAGCCAGACCTCAGAGGCCCTCGTCTGTAGTCTCCGCCCATCCCCATCTCCCTGGACGGGTT

Fig. 9A

GCTCTTCCCCGGCCCTGTCAAGGGCAGAAACCCCCAGACGGGAAGACGCAGGACCCACCGTCG
TTGTCAGACGTGGAGGGCGCATTTCTTGAGTCGAAGCCCCGGAGGGGCAGGAGACAGCAGCT
CGAGACCTCCAGAAAAGGACAGCGGCCCTGCTGGACAGTGTCTCGACACGCTCCTGGCGCCCTC
GGTCCCCGGGCAGAGCCACGCCAGCCCCCTGCCACCTGCGAGGCCATCAGCCCCGTGTGCTGTTT
GGCCCCGACCTTCCCCGAAGACCCCCGGGCTGCCCCCGCTACCAAAGGGGTGTTGGCCCCGCTCA
TGAGCCGACCCGAGACAAGGCAGGCGACAGCTCTGGGACGGCAGCGGCCCAAGGTGCTGCC
CAGGGGACTGTACCATCCAGGCAGCTGTGCTCCCCCTCTCTGGGAGCCCCCTCACTGGCCGGCA
GTGAAGCCATCCCCGCAGCCCGCTGCGGTGCAGGTAGACGAGGAGGACAGCTCCGAATCCGAGG
GCACCGTGGGCCCGCTCCTGAAGGGCCAACCTCGGGCACTGGGAGGCACGGCGCGGAGGAGG
AGCTGCCCCCGTCCGCTCTGGAGCGGCCGCAGGAGGCGTCCCTTGTCCCCAAGGAAGATTCT
CGCTTCTCGGCGCCAGGGTCTCCTTGGCGGAGCAGGACGCGCGGTGGCGCTGGCGCTCCC
CGCTGGCCACCTCGGTGGTGGATTTCATCCACGTGCCCATCCTGCCCTCTCAACCACGCTTTCCT
GGCCACCCGCACAGGCAGCTGCTGGAGGGGAGAGCTACGACGGCGGGGCGCGGCCCGCCAGC

Fig. 9B

CCCTTCG. CCCGCAGCGGGCTCCCCCTCTGCCTCGTCCACCCCTGTGGGGCGGCGACTTCC
CCGACTGCACCTACCCGCCCGACGCCGAGCCCAAAGATGACGGTTCCCCCTCTACGGCGACTT
CCAGCCGCCCGCCCTCAAGATAAAGGAGGAGGAAGAGCCCGGAGGCCCGCGCGCTCCCCCG
CGTACGTACCTGGTGGCTGGTGCAAAACCCCGCCGCTTCCCGGACTTCCAGCTGGCAGCGCCGC
CGCCACCTCGCTGCCGCCCTCGAGTGCCCTCGTCCAGACCCGGGGAAGCGCGGTGGCGGCCTC
CCCAGGCAGTGCCCTCCGTCTCCTCGTCTCGTGGGTGACCCCTGGAGTGCAATCCTGTAC
AAGCAGAAGCGCGCCGCCAGCAGGCCCCCTTCCGCCCGCTGCCCTGCAAGCCTCCGGCG
CCGGCGCCTGCCCTGCCCGGACGGCCTGCCCTCCACCTCCGCCCTCGGGCGAGCCGCCCG
GGCCGCCCTGCCCTCTACCCGACGCTCGGCCTCAACGGACTCCCGCAACTCGGCTACCAGGCC
GCCGTGCTCAAGGAGGCCCTGCCGCAGGTCTACACGCCCTATCTCAACTACCTGAGGCCGGATT
CAGAAGCCAGTCAGAGCCACAGTACAGCTTCGAGTCACTACCTCAGAAGATTGTGTGATCTG
TGGGATGAAGCATCAGGCTGTCAATTATGGTGCTCCTCACCTGTGGGAGCTGTAGGTCTTCTTT
AAAAGGCAATGGAAGGCAGCATAACTATTATGTGCTGGAAGAAATGACTGCATTGTTGATA

Fig. 9C

AAATCCGCAGGAAAACTGCCCGCGTGTGCGCCTTAGAAAAGTGTGTCAAGCTGGCATGGTCCT
TGGAGGGCGAAAGTTTAAAAAGTTCAATAAAGTCAGAGTCATGAGAGCACTCGATGCTGTTGCT
CTCCACAGCCAGTGGGCATTCCAAATGAAAGCCAACGAATCACTTTTCTCCAAGTCAAGAGA
TACAGTTAATTCCCCCTCTAATCAACCTGTTAATGAGCATTTGAACCAGATGTGATCTATGCAGG
ACATGACACACAAAGCCTGATACCTCCAGTTCTTTTGCTGACGAGTCTTAATCAACTAGGCGAG
CGGCAACTTCTTTCAGTGGTAAATGGTCCAAAATCTCTTCCAGGTTTTTCGAAACTTACATATTG
ATGACCAGATAACTCTCATCCAGTATTCTTTGGATGAGTTTAATGGTATTTGGACTAGGATGGAG
ATCCTACAAACATGTGAGTGGGCAGATGCTGTATTTTGCACCTGATCTAATATTAAATGAACAG
CGGATGAAAGAAATCATCATTTCTATTCACTATGCCTTACCATGTGGCAGATACCGCAGGAGTTTG
TCAAGCTTCAAGTTAGCCCAAGAAGAGTTCCTCTGCATGAAAGTATTACTACTTCTTAATACAAT
TCCTTTGGAAGGACTAAGAAGTCAAAGCCAGTTTGAAGAGATGAGATCAAGCTACATTAGAGAG
CTCATCAAGGCAATTGGTTTGAGGCCAAAAAGGAGTTGTTTCCAGCTCACAGCGTTTCTATCAGC
TCACAAAACCTTCTTGATAAATTGTCATGATCTTGTCAAACAACCTTACCTGTACTGCCTGAATAC

Fig. 9D

ATTATCCAGTCCCGGGCGCTGAGTGTGAATTTCCAGAAATGATGTCTGAAGTTATTGCTGCA
CAGTTACCCAGATAATTGGCAGGGATGGTGAAACCACTTCTCTTTCATAAAAAGTGAATGTCAA
TTATTTTTCAAAGAAATTAAGTGTGTGGTATGTCTTTTCGTTTTTGGTCAGGATTATGACGTCCTCG
AGTTTTTATAATAATTCTGAAGGGAATTCTCTGCAGCCCGGGGATCCACTAGTTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAATGCAGTGAAAAAAATG
CTTTATTGTGAAATTTGTGATGCTATTGCTTTTATTGTAAACCATTAAGCTGCAATAAACAA
GTTAAACAACAATTGCATTCTATTTTATGTTTCAGGTTCAGGGGGAGGTGTGGGAGGTTTTTT
AAAGCAAGTAAACCCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCGTCGTG
GCCGGACCACGCTATCTGTGCAAGGTCCCCGGACGGCGCTCCATGACAGAGCGCCCGCCGCC
GAGGCAAGACTCGGGCGGCCCTGCCCCGTCCACAGGTCAACAGGCGGTAACCGGCCCTCTTC
ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAAAATGGAGAAAAAAATCACTGGAT
ATACCACCGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTTCAGTCAGTTGC

Fig. 9E

TCAATGTACCTATAACCAGACCGTTTACAGCTGCATTAAATCGGCCAACGCGCGGGAGAGGC
GGTTTGGCGTATTGGGGCGCTCTTCCGGCTTCCCTCGCTCACTGACTCGCTGCGCTCGGTTCGTCGGC
TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAA
CGCAGGAAAGAACATGTAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGCCGCGTTG
CTGGCGTTTTTCCATAGGCTCCGCCCTGACGAGCATCAAAAATCGACGCTCAAGTCAGA
GGTGGCGAAACCCGACAGGACTATAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCG
CTCTCCGTGTTCCGACCCCTGCCGTTACCGGATACCTGTCCGCCCTTCTCCCTTCGGGAAGCGTG
GCGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCGCTCCAAGCTGG
GCTGTGTGCAGAACCCCGCTTCAGCCCCGACCGCTGCGCCTTATCCGGTACTATCGTCTTGA
GTCCAACCCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
GCGAGGTATGTAGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCCTAACTACGGCTACACTAGAA
GGACAGTATTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTC
TTGATCCGGCAAAACACCGCTGTAGCGGTGTTTTTTTTTTGTTTGCAAGCAGCAGATTACG

Fig. 9F

CGCAGAAAAAAGGATCTCAAGAAGATCCTTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAAAAATGAAGTTTTTAAATCAATCTAAAGTATATAGATAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTG
CCTGACTCCCCGTCGTAGATAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGC
AATGATACCGGAGACCCACGCTCACGGCTCCAGATTTATCAGCAATAAACCCAGCCGCGGA
AGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCCTCCATCCAGTCTATTAATTGTTGCC
GGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTTCGCGCAACGTTGTTGCCATTGCTACAGG
CATCGTGGTGCACGCTCGTTCGTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGG
CGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCCTCCGATCGTTG
TCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAAATTCTCTTAC
TGTCATGCCATCCGTAAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAA
TAGTGATGCGGCGACCGAGTGTCTCTTGTCCCGCGTCAATACGGGATAATACCGCGGCACATA

Fig. 9G

GCAGAACTTTAAAAGTGCTCATATTGAAAACGTTCTTCGGGGCGAAAACCTCTCAAGGATCTT
ACCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGACCCAACTGATCTTCAGCATCTTTT
ACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGCAAAATGCCGCAAAAAGGGAATAA
GGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATTGAAGCATTTATCA
GGTTATTGCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTT
CCGCGACATTTCCCCGAAAAGTGCCACCTGACGTCTAAGAAACCATTTATTATCATGACATTAA
CCTATAAAATAGGCGTATCACGAGGCCCTTTCGTC

Fig. 9H

CTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATC
AGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGT
CGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAG
TGATAGAGAAAAGTGAAAGTCGAGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCG
AGTTTACCACCTCCCTATCAGTGATAGAGAAAAGTGAAAGTCGAGTCGGTACCCGGTCGAGTA
GGCGTGTAACGGTGGGAGGCCCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCCTGGAG
ACGCCATCCACGCTGTTTGTGACCTCCATAGAAAGACACCGGGACCGATCCAGCCTCCGCGGGCCCC
GAATTCCGCCACGACCATGACCATGACCCCTCCACACCAAGCATCTGGGATGGCCCTACTGCA
TCAGATCCAAGGAAACGAGCTGGAGCCCCCTGAACCGTCCGCAGCTCAAGATCCCCCTGGAGCGG
CCCCTGGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCGTGTACAACCTACCCCGAGGGCGCG
CCTACGAGTTCAACGCCCGCGGCCCGCCCAACGCGCAGGTCTACGGTCAGACCGGCCCTCCCCCTA
CGGCCCGGGTCTGAGGCTGCGGCGTTTCGGCTCCAACGGCCTGGGGGGTTTCCCCCCTCAAC
AGCGTGTCTCCGAGCCCGCTGATGCTACTGCACCCCGCCGCGCAGCTGTGCGCTTTCTCTGCAGC

Fig. 10A

CCCACGGCCAGCAGGTGCCCTACTACCTGGAGAACGAGCCCCAGCGGCTACACGGTGC GCGAGGC
CGGCCCGCCGGCATTTCTACAGGCCAAATT CAGATAATCGACGCCAGGGTGGCAGAGAAAGATTG
GCCAGTACCAATGACAAGGAAGTATGGCTATGGAATCTGCCAAGGAGACTCGCTACTGTGCAG
TGTGCAATGACTATGCTTCAGGCTACCAATTATGGAGTCTGGTCTGTGAGGGCTGCAAGGCCCTT
CTTCAAGAGAAGTATTCAAGGACATAACGACTATATGTGTCCAGCCACC AACAGTGCACCATT
GATAAAAACAGGAGGAAGAGCTGCCAGGCCTGCCGGCTCCGCAAATGCTACGAAGTGGGAATGA
TGAAAGGTGGGATACGAAAAGACCGAAGAGGAGGAGAATGTTGAAACACAAGCCAGAGAGA
TGATGGGAGGGCAGGGGTGAAGTGGGTCTGCTGGAGACATGAGAGCTGCCAACCTTTGGCCA
AGCCCGCTCATGATCAAACGCTCTAAGAAAGAACAGCCTGGCCTTGTCCTGACGGCCGACCAGA
TGGTCATGGCCTTGTGGATGCTGAGCCCCCATACTCTATTCCGAGTATGATCCTACCAGACC
CTTCAGTGAAGCTTCGATGATGGGCTTACTGACC AACCTGGCAGACAGGGAGCTGGTTCACATG
ATCAACTGGCGAAGAGGGTGCCAGGCTTTGTGGATTTGACCCCTCCATGATCAGGTCCACCTTC
TAGAATGTGCCTGGCTAGAGATCCTGATGATTGGTCTCGTCTGGCGCTCCATGGAGCACCCAGT

Fig. 10B

GAAGCTACTGTTTGCTCCTAACTTGCTCTTGGACAGGAACCAGGAAAATGTGTAGAGGGCATG
GTGGAGATCTTCGACATGCTGCTGGCTACATCATCTCGGTTCCGCATGATGAATCTGCAGGGAG
AGGAGTTTGTGTGCCCTCAAATCTATATTTTGCTTAATTTCTGGAGGTACACATTTCTGTCTCCAG
CACCCCTGAAGTCTCTGGAAGAGAGAGACCATATCCACCGAGTCTTGGACAAGATCACAGACACT
TTGATCCACCTGATGGCCCAAGGCAGGCCCTGACCCCTGCAGCAGCAGCACCGCGGCTGGCCCCAGC
TCCCTCCTCATCCTCTCCCACATCAGGCACATGAGTAACAAAGGCATGGAGCATCTGTACAGCAT
GAAGTGCAAGAACGTGTGCCCTCTATGACCTGCTGCTGGAGATGCTGGACGCCACCGCCTA
CATGCCCCACTAGCCGTGGAGGGGCATCCGTGGAGGAGACGGACCAAGCCACTTGGCCACTG
CGGGCTCTACTTCATCGCATTCCTTGCAAAAGTATTACATCACGGGGGAGGCAGAGGGTTTCCC
TGCCACAGTCTGAGAGCTCCCTGGCGGAATTCGAGCTCGGTACCCGGGGATCCTCTAGAGGATC
CAGACATGATAAGATACATTGATGAGTTTGGACAAACCACAACTAGAAATGCAGTGAAAAAATG
CTTTATTGTGAAAATTGTGATGCTATTGCTTTATTGTAAACCATTATAAGCTGCAATAAACAA
GTTAACAAACAAATTGCATTCTTTTATGTTTCAGGTTTCAGGGGAGGTGTGGAGGTTTTTT

Fig. 10C

AAAGCAAGTAAACCTCTACAAATGTGGTATGGCTGATTATGATCCTGCAAGCCTCGTCTCTG
GCCGGACCACGCTATCTGTGCAAGGTCCCCGGACGCGCGCTCCATGAGCAGAGCGCCCCGCC
GAGCAAGACTCGGGCGGCCCTGCCCGTCCCACAGGTCAACAGGCGGTAAACCGGCCCTCTTC
ATCGGGAATGCGCGGACCTTCAGCATCGCCGGCATGTCCCCCTGGCGGACGGGAAGTATCAGCT
CGACCAAGCTTGGCGAGATTTTCAGGAGCTAAGGAAGCTAAATGGAGAAAAAATCACTGGAT
ATACCACCGTTGATATATCCCAATGGCATCGTAAGAACAATTTGAGGCATTTTCAGTCAGTTGC
TCAATGTACCTATAACCAAGACCGTTCAGCTGCATTAATGAATCGGCCAACGCGGGGAGAGGC
GGTTTGGGTAATTGGGCGCTCTTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCTCGGC
TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGTAATACGGTTATCCACAGAATCAGGGGATAA
CGCAGGAAGAACATGTGAGCAAAGGCCAGCAAAGGCCAGGAACCGTAAAAAGGCCCGTTG
CTGGCGTTTTCATAGGCTCCGCCCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGA
GGTGGCGAAACCCGACAGGACTATAAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCG
CTCTCCTGTTCCGACCCCTGCGGCTTACCGGATACCTGTCCGCCCTTTCTCCCTTCGGGAAGCGTG

Fig. 10D

GGGCTTCTCAATGCTCACGCTGTAGGTATCTCAGTTCGGGTAGTTCGTTCCGAAGCTGG
GCTGTGTGACGAACCCCGTTTCAGCCCGACCGCTGCGCCTTATCCGGTAACTATCGTCTTGA
GTCCAACCGGTAAGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
GGGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA
GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGTTAGCTC
TTGATCCC GCAAAACAAACCCGCTGGTAGCGGTGTTTTTTTGTTCAGCAGCAGATTACG
CGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGA
ACGAAAACTCACGTTAAGGGATTTTGGTCA TGAGATTATCAAAAAGGATCTTCACCTAGATCCT
TTTAAATTAATAATGAAGTTTAAATCAATCTAAAGTATATATAGTAAACTTGGTCTGACAGT
TACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTCCATAGTTG
CCTGATCCCCGTCGTGTAGATAACTACGATACGGAGGGCTTACCATCTGGCCCCAGTGCTGCA
ATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAACCCAGCCCGGAA
GGGCCGAGCGCAGAAGTGGTCCGTGCAACTTTATCCGCCCTCCAGTCTATTAATTGTTGCCG

Fig. 10E

GGAAGCTA GAGTAAGTAGTT CGCCAGTTAATAGTTT GCGCAACGTTGT TGTGCCATTGCTACAGGC
ATCGTGGTGTCACGCTCGTCTGTTTGGTATGGCTTCATT CAGCTCCGGTTCCCAACGATCAAGGC
GAGTTACATGATCCCCCATGTTGTGC AAAAAGCGGTTAGCTCCTTCGGTCTCTCCGATCGTTGT
CAGAAGTAAGTTGGCCGAGTGTTATCACTCATGGTTATGGCAGCAGCTGCATAAATCTCTTACT
GTATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAAT
AGTGATGCGGCGACCGAGTTGCTCTTTGCCCGCGTCAATACGGGATAATAACCGGCCACATAG
CAGAACTTTAAAAGTGCTCATCATTTGAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTA
CCGCTGTTGAGATCCAGTTCGATGTAAACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTA
CTTTCACACGCGTTTCTGGGTGAGCAAAAACAGGAAGCAAAATGCCGCAAAAAGGAATAAG
GGGACACGGAAATGTTGAATACTCATACTCTTCCTTTTCAATATTATTGAAGCATTTATCAG
GGTATTGCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTTC
CGGCGACATTTCCCGAAAAGTGCCACCTGACGCTAAGAAACCATTTATTATCATGACATTAAAC
CTATAAAAATAGCGGTATCAGGAGGCCCTTTCGTC

Fig. 10F

FIG. 11

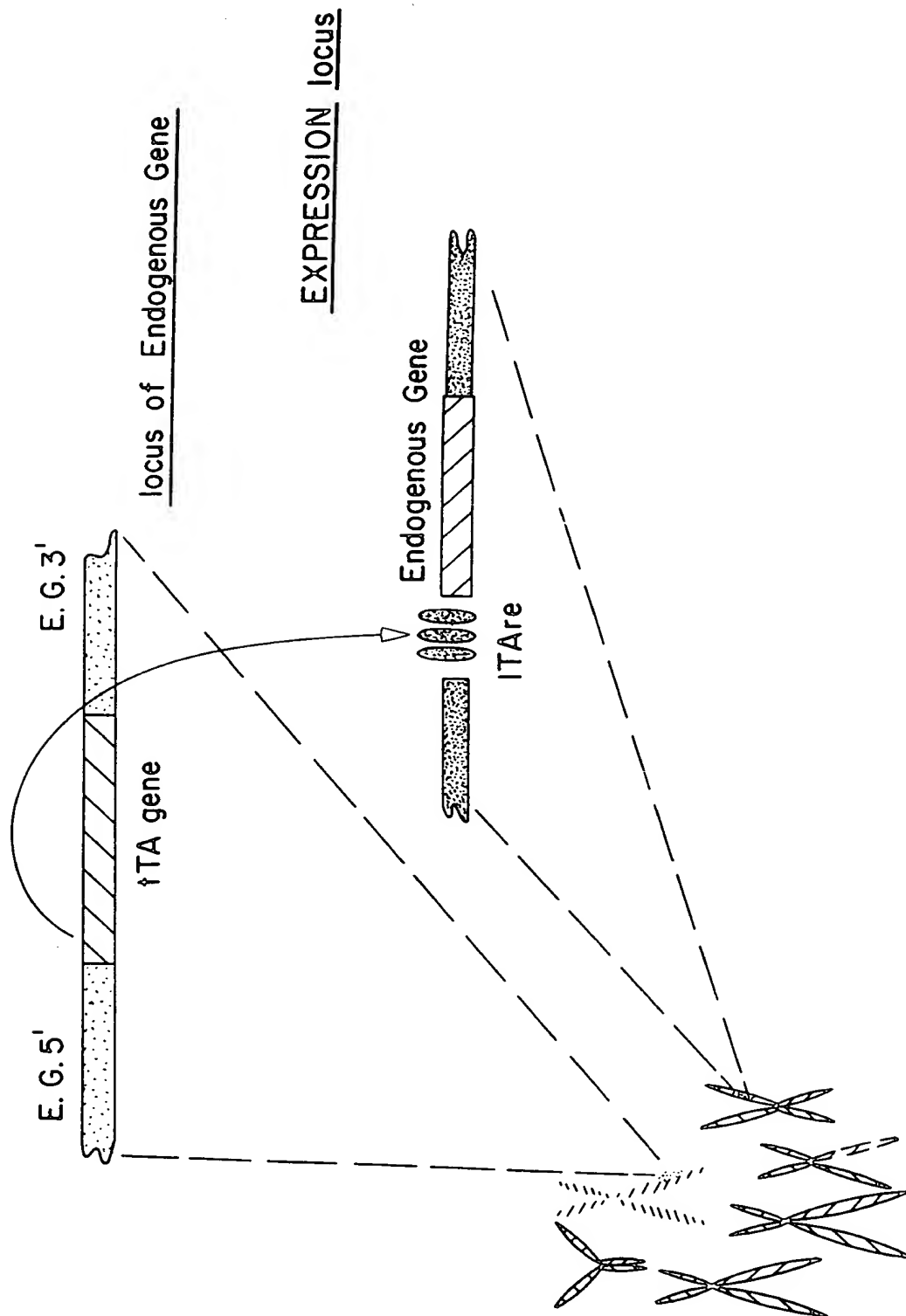


FIG. 12

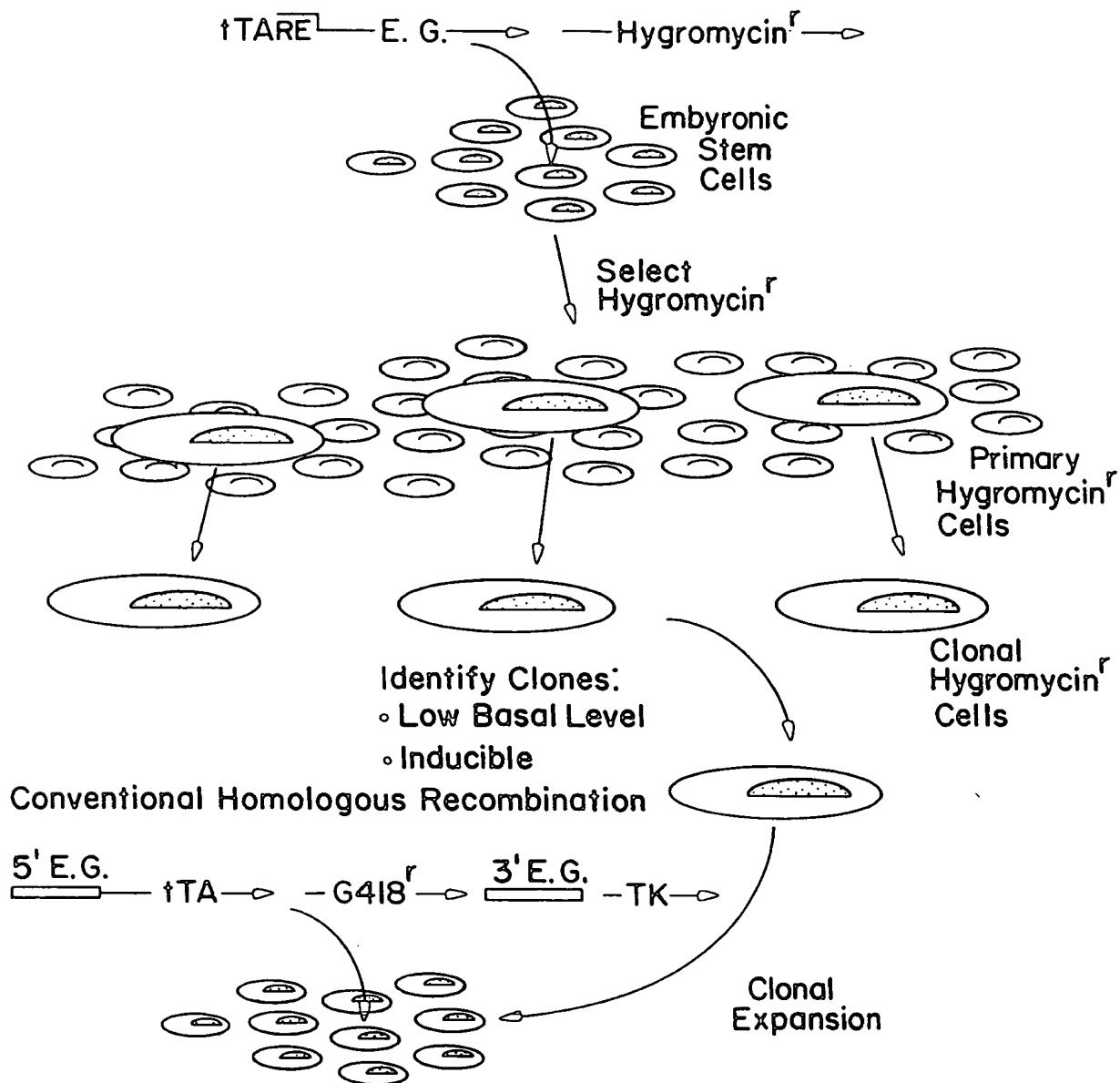


FIG. 13A

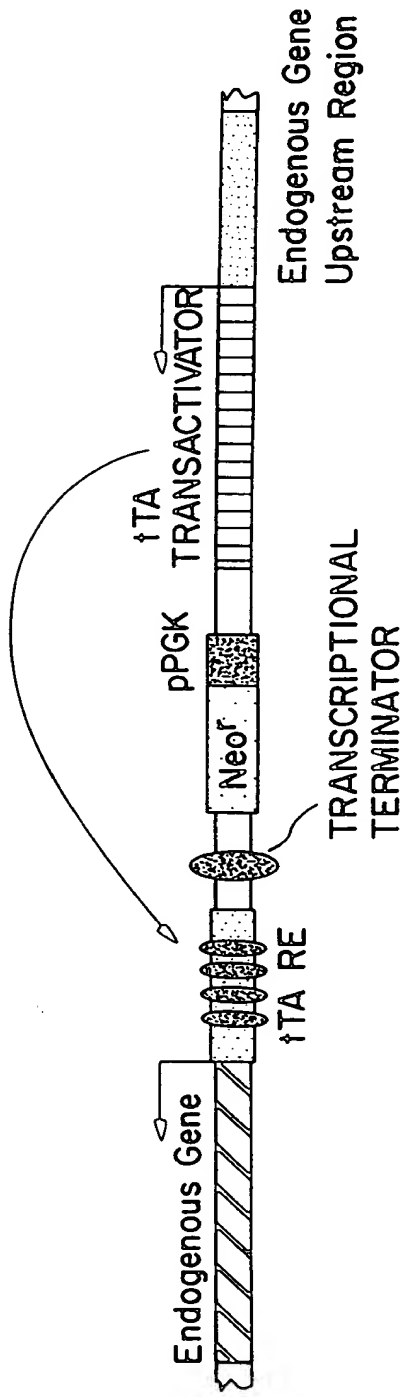


FIG. 13B

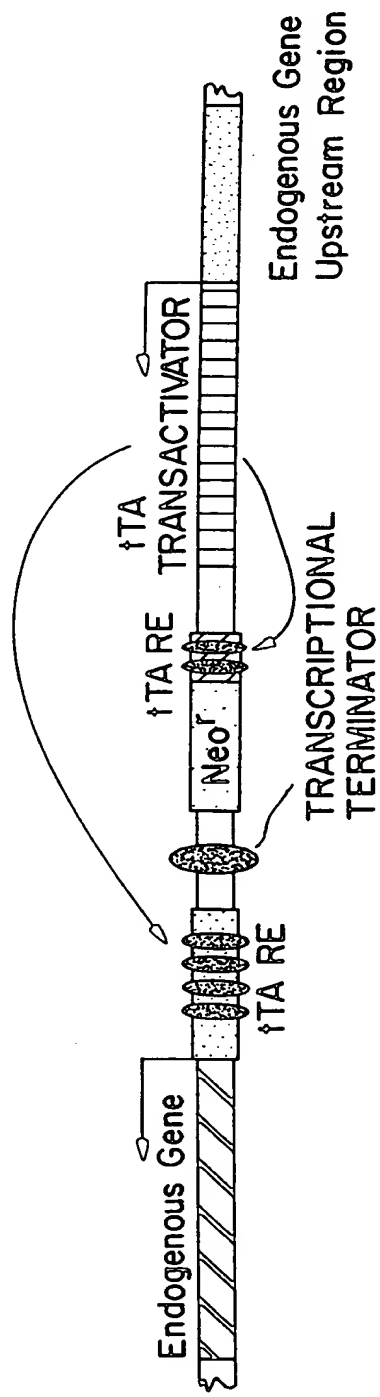


FIG.14

